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SEQUENCE LISTING

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<110> Raymond, Christopher K.  
<120> METHODS FOR QUANTITATING SMALL RNA MOLECULES  
<130> ROSA-1-27563  
<150> US 60/647,178  
<151> 2005-01-25  
<150> PCT/US06/002591  
<151> 2006-01-25  
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&lt;223&gt; Primer

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29

&lt;210&gt; 66

&lt;211&gt; 16

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&lt;223&gt; Primer

&lt;220&gt;

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caaagtgcctt acagtg

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&lt;210&gt; 67

&lt;211&gt; 29

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&lt;213&gt; Artificial Sequence

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&lt;223&gt; Primer

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catgatcagc tgggccaaga tcagttttg

29

&lt;210&gt; 68

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tgtgcaaadc tatgc

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&lt;210&gt; 69

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 <222> (3)..(5)  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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16

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19

<210> 95  
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<210> 98

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17

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17

<210> 101  
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14

<210> 103  
 <211> 29  
 <212> DNA  
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17

<210> 105  
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tgtaaacatc cttgac

16

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<211> 30

<212> DNA

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<400> 107

catgatcagc tgggccaaga cagctatgcc

30

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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ggcaagatgc tggc

14

<210> 109

<211> 30

<212> DNA

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<400> 109

catgatcagc tgggccaaga gcaacttagt

30

<210> 110

<211> 17

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<220>  
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 <223> Nucleotide at position 6 and/or 8 may be modified by  
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17

<210> 111  
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29

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30

<210> 114  
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&lt;221&gt; misc\_feature

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<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 114

tggcagtgtc ttag

14

&lt;210&gt; 115

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 115

catgatcagc tgggccaaga caatcagcta

30

&lt;210&gt; 116

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3)..(5)

<223> Nucleotide at position 3 and/or 5 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 116

taggcagtgt catt

14

&lt;210&gt; 117

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 117

catgatcagc tgggccaaga gcaatcagct

30

&lt;210&gt; 118

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

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<220>

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
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<400> 118

aggcagtgtgta gtta

14

<210> 119

<211> 30

<212> DNA

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<223> Primer

<400> 119

catgatcagc tgggccaaga caggccggga

30

<210> 120

<211> 15

<212> DNA

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<220>

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 120

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15

<210> 121

<211> 30

<212> DNA

<213> Artificial Sequence

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<400> 121

catgatcagc tgggccaaga ctacctgcac

30

<210> 122

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 123  
 <211> 30  
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<220>  
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<400> 123  
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30

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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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19

<210> 125  
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 <212> DNA  
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<220>  
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<400> 125  
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30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 131  
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<400> 131  
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14

<210> 133  
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<220>  
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<400> 133  
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<210> 134  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 139  
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<220>  
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<400> 139  
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30

<210> 140  
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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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<223> Nucleotide at position 4 and/or 6 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

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30

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15

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<220>  
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<400> 145  
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28

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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30

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14

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<400> 149  
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30

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<210> 153  
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 <400> 153  
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<400> 154  
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14

<210> 155  
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<400> 157  
catgatcagc tgggccaaga cgcgtacc

28

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cattattact tttggtacg

19

<210> 159  
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30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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30

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14

<210> 163  
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<220>  
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30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14



<210> 167  
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<220>  
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30

<210> 168  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 168  
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17

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<400> 169  
 catgatcagc tgggccaaga atgccctttc

30

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<220>  
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 cagtgcaatg atga

14

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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<400> 173  
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14

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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<400> 178  
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14

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<220>  
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30

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<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<210> 181  
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<400> 181  
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30

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

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<223> Primer

<400> 183

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actccatttg ttttgatg

18

<210> 185

<211> 30

<212> DNA

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<220>

<223> Primer

<400> 185

catgatcagc tgggccaaga ctacgcgtat

30

<210> 186

<211> 18

<212> DNA

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<222> (2)..(4)

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<400> 186

tattgcttaa gaatacgc

18

<210> 187

<211> 29

<212> DNA

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<400> 187  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 189  
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<400> 189  
 catgatcagc tgggccaaga agacacgtgc

30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 190  
 tctacagtgc acgt

14

<210> 191  
 <211> 30  
 <212> DNA  
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&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 191

catgatcagc tgggccaaga ctaccatagg

30

&lt;210&gt; 192

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 192

agtggtttta ccct

14

&lt;210&gt; 193

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 193

catgatcagc tgggccaaga ccattcttta

29

&lt;210&gt; 194

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (4)..(7)

<223> Nucleotide at position 4 and/or 7 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 194

taacactgtc tggtaa

16

&lt;210&gt; 195

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

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<400> 195  
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28

<210> 196  
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<222> (4)..(6)  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 196  
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16

<210> 197  
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<220>  
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<400> 197  
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28

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<210> 199  
<211> 29  
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<220>  
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<400> 199  
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<222> (3)..(9)  
<223> Nucleotide at position 3 and/or 5 and/or 9 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 200  
tacagtatag atgatg

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<210> 201  
<211> 29  
<212> DNA  
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<220>  
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<400> 201  
catgatcagc tgggccaaga aagggattc

29

<210> 202  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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gtccagtttt ccca

14

<210> 203  
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<212> DNA  
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<220>  
<223> Primer

<400> 203  
catgatcagc tgggccaaga aacccatg

28

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<220>  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 204  
tgagaactga attcca

16

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<212> DNA  
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<220>  
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<400> 205  
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30

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<220>  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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<400> 207

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 208  
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18

<210> 209  
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<400> 209  
 catgatcagc tgggccaaga acaaagttc

29

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14

<210> 211  
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<220>  
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<400> 211  
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29

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14

<210> 213  
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<220>  
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<400> 213  
 catgatcagc tgggccaaga cactggta

28

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 214  
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14

<210> 215  
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<220>  
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<400> 215  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 216  
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<210> 217  
 <211> 29  
 <212> DNA  
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<220>  
 <223> Primer

<400> 217  
 catgatcagc tgggccaaga cccaagttc

29

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<400> 218  
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14

<210> 219  
 <211> 29  
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<220>  
 <223> Primer

<400> 219  
 catgatcagc tgggccaaga tcacttttg

29

<210> 220  
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<220>  
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<220>  
 <221> misc\_feature  
 <222> (4)..(7)  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 220  
 ttgcatagtc acaaaa

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<210> 221  
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<220>  
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<400> 221  
 catgatcagc tgggccaaga aatagggtca

29

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<220>  
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<220>  
 <221> misc\_feature  
 <222> (6)..(8)  
 <223> Nucleotide at position 6 and/or 8 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 222  
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17

<210> 223  
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<220>  
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<400> 223  
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29

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<220>  
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 <223> Nucleotide at position 3 and/or 8 may be modified by  
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15

<210> 225  
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<220>  
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<400> 225  
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28

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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 226  
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20

<210> 227  
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<220>  
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<400> 227  
 catgatcagc tgggccaaga actcaccga

29

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<212> DNA  
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 <223> Nucleotide at position 3 and/or 7 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<210> 229  
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<400> 229  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 230  
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16

<210> 231  
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<400> 231  
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30

<210> 232  
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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 232

tggttctaga cttgc

15

<210> 233

<211> 29

<212> DNA

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<220>

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<400> 233

catgatcagc tgggccaaga tgtgagttc

29

<210> 234

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<213> Artificial Sequence

<220>

<223> Primer

<220>

<221> misc\_feature

<222> (4)..(6)

<223> Nucleotide at position 4 and/or 6 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 234

tttggcaatg gtag

14

<210> 235

<211> 29

<212> DNA

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<220>

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<400> 235

catgatcagc tgggccaaga cagtgaatt

29

<210> 236

<211> 14

<212> DNA

<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 236

tatggcactg gtag

14

&lt;210&gt; 237

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 237

catgatcagc tgggccaaga acccttatc

29

&lt;210&gt; 238

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 238

tggacggaga actg

14

&lt;210&gt; 239

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 239

catgatcagc tgggccaaga aagcccaaa

29

&lt;210&gt; 240

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3)..(10)

<223> Nucleotide at position 3 and/or 5 and/or 10 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 240

caaagaattc tccttttg

19

&lt;210&gt; 241

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 241

catgatcagc tgggccaaga cggtgcaac

30

&lt;210&gt; 242

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 242

tcgtgtcttg tggt

14

&lt;210&gt; 243

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 243

catgatcagc tgggccaaga accctccacc

30

&lt;210&gt; 244

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Primer

<220>

<221> misc\_feature

<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 244

catcccttgc atgg

14

<210> 245

<211> 29

<212> DNA

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<220>

<223> Primer

<400> 245

catgatcagc tgggccaaga actgatatc

29

<210> 246

<211> 14

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<220>

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 246

gtgcctactg agct

14

<210> 247

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 247

catgatcagc tgggccaaga acctaatat

29

<210> 248

<211> 20

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<220>

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<220>
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29

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 272  
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14

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27

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17

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30

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<400> 293  
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16

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14



<210> 297  
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29

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29

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<400> 311

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&lt;223&gt; Primer

&lt;400&gt; 317

catgatcagc tgggccaaga acaggattg

29

&lt;210&gt; 318

&lt;211&gt; 15

&lt;212&gt; DNA

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&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

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<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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agggccccc ctcaa

15

&lt;210&gt; 319

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 319

catgatcagc tgggccaaga atgtatgtg

29

&lt;210&gt; 320

&lt;211&gt; 14

&lt;212&gt; DNA

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&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

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14

&lt;210&gt; 321

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30

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17

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30

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15

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30

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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17

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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14

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<400> 355  
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15

<210> 357  
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 <212> DNA  
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<400> 357  
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<400> 358

tccagcatca gtgattt

17

<210> 359

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<212> DNA

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<400> 359

catgatcagc tgggccaaga tgagctcct

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<400> 360

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<210> 361

<211> 30

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<210> 362

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14

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<400> 363  
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28

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16

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<400> 365  
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30

<210> 366  
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&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 366

tgctgactcc tagt

14

&lt;210&gt; 367

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 367

catgatcagc tgggccaaga agaggcaggc

30

&lt;210&gt; 368

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 368

tgtctgcccg catg

14

&lt;210&gt; 369

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 369

catgatcagc tgggccaaga tacagatgga

30

&lt;210&gt; 370

&lt;211&gt; 15

&lt;212&gt; DNA

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&lt;220&gt;

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<222> (4)..(9)

<223> Nucleotide at position 4 and/or 6 and/or 9 may be modified by  
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<400> 370

aattgcacgg tatcc

15

<210> 371

<211> 30

<212> DNA

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<400> 371

catgatcagc tgggccaaga tcaccattgc

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<210> 372

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<222> (4)..(6)

<223> Nucleotide at position 4 and/or 6 may be modified by  
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<400> 372

aattgcactt tagcaat

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<210> 373

<211> 30

<212> DNA

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<400> 373

catgatcagc tgggccaaga aaacgtggaa

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<210> 374

<211> 18

<212> DNA

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18

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 377  
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<400> 377  
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<210> 378  
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14

<210> 379  
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<220>  
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<400> 379  
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14

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<220>  
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<400> 381  
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<210> 385  
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<400> 385  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<210> 393  
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<220>  
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<400> 393  
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<223> Nucleotide at position 2 and/or 5 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 394  
tggttagacta tggaacg

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<210> 395  
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catgatcagc tgggccaaga gcgcatgttc

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<223> Nucleotide at position 3 and/or 5 may be modified by

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<210> 403  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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agatcagaag gtgattgt

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<210> 405  
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<220>  
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29

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modified by 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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17

<210> 407  
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<212> DNA  
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acttcacctg gtccacta

18

<210> 409  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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ctggacttag ggtc

14

<210> 411  
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17

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<p>&lt;210&gt; 493          &lt;211&gt; 16          &lt;212&gt; DNA          &lt;213&gt; Artificial Sequence</p> <p>&lt;220&gt;          &lt;223&gt; Primer</p> <p>&lt;220&gt;          &lt;221&gt; misc_feature          &lt;222&gt; (2)..(7)          &lt;223&gt; Nucleotide at position 2 and/or 4 and/or 7 may be modified by          2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety</p> <p>&lt;400&gt; 493          ccctgtagaa ccgaat</p>		
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